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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,786	01/17/2001	Hirokazu Sakai	201989US3	4950
22850 7	7590 05/24/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			DEMILLE, DANTON D	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•		3764	
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DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	7		
		09/760,786	SAKAI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Danton DeMille	3764			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 10 h	March 2004.				
·	<u> </u>	s action is non-final.				
3)□	·—					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 16-20 and 23 is/are pending in the a 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 16-20 and 23 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	awn from consideration.				
Applicat	ion Papers					
9)[	The specification is objected to by the Examine	er.				
10)[	The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	,	•			
Priority (	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documen  2. Certified copies of the priority documen  3. Copies of the certified copies of the priority documen application from the International Burea  See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachmen	ut(s) ce of References Cited (PTO-892)	4) ☐ Interview Summary	v (PTO-413)			
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	6) Other:	atom ripphodulon (1 10-102)			

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

- Claims 16-20 and 23 are rejected under 35 U.S.C. 112, second paragraph, as being 1. indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- It is not clear what applicant is attempting with the language that recites "the imaginary 2. concave plane has edge portion(sic)". It is not clear how an imaginary concave plane has edge portions. It is a continuous surface that doesn't appear to have edges. Moreover, it is made up of the apices of the plurality of projections which is an incomplete surface. It is not a continuous surface to have edge portions. It is also not clear how these edge portions then "gradually decrease height(sic)" toward midpoints of the edge portions. How does edge portions decrease in height? It is not clear how edge portions have a height. An imaginary plane does not have a height. Moreover, it is not clear how these edge portions have a midpoint. How does the edge portions have a length? What are the boundaries of the edge portions? The claim already recites the apices of the projections form an imaginary concave plane. It is not clear how this further defines the invention.
- It is not clear how claim 19 further limits claim 23. Claim 19 recites specific dimensions 3. for the plurality of projections however claim 23 already recites these same dimensions.

## Claim Rejections - 35 USC § 103

4. Claims 23 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aichinger (German 0096102) in view of Harris, Van Sant and Homma et al.

- 5. Aichinger teaches the heart of applicant's invention. Aichinger teaches a detergent, a detergent container having a body and a cover, the cover being detachably attached to the upper portion of the body having a side surface with a plurality of projections with the apices of the projections forming an imaginary curved plane. The choices of the detergent, inner cap and configuration of the projections appear to be well within the realm of the artisan of ordinary skill. The modification of any one of these details does not affect the overall performance of the device and no unexpected results occur. There is no criticality to any one of these details.
- 6. The outer cover of Aichinger already has an inner cover 9 covering the opening 1. There is no unobviousness to provide an additional cover over the container opening to seal the contents so that the contents doesn't spill when the outer cover is removed during use. Harris teaches just such a convention. Figure 3 shows a container with an outer cover detachably attached to the upper portion of the body without a removable inner cover. Figure 2 teaches the provision of including a removable inner cover sealing the container opening. Obviously you can have it either way. With an additional cover or without depending on the intended use. It would have been obvious to one of ordinary skill in the art to modify Aichinger to include an inner cover over the container opening as taught by Harris to prevent the contents from spilling when the outer cover is removed and used separately.
- 7. There is also no unobviousness to the shape of the projections. The shape of the projections can be modified to better conform to the shape of the human body as desired.

  Aichinger already teaches the projections form a curved shape to conform to the shape of the head. It is not an inventive step to do the same thing only a little differently. Van Sant teaches that the height of the projections can decrease toward the center portion to form an imaginary

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concave plane, page 2, lines 25-29, "The projections 14 do not stand up as high as the projections 15, thus affording substantially concave points of contact adapted to more or less conform to the contour of the head." It would have been obvious to one of ordinary skill in the art to further modify Aichinger to shape the ends of the projections to be concave as taught by Van Sant to better conform the surface of the projections to the shape of the human head. The shampoo container of the instant invention and the prior art are applying shampoo to the head of the user and working it into the hair by using the projections. Aichinger teaches a curved shape to the projections to conform to the shape of the head and Van Sant teaches another obvious equivalent alternative shape which is more convex to better conform to the shape of the head. The head is convex and to shape the ends of the projections to conform to the convex shape of the head would have been an obvious to one of ordinary skill in the art as exemplified by Van Sant.

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- 8. Every element of the detergent claimed is found in Homma. Using a conventional shampoo such as one that includes a cationic polymer, nonionic surface active agent, alcohol and water would have been an obvious provision in Aichinger or Harris. Homma teaches such a shampoo composition that includes 0.05 to 2.5 % cationic polymer (abstract), nonionic surface active agents (column 2, lines 4-5), alcohol (column 5, line 14) and the balance with water. It would have been obvious to one of ordinary skill in the art to further modify Aichinger and use a conventional shampoo such as taught by Homma to complete the shampoo container.
- 9. Regarding the last paragraph of claim 23, there appears to be no unobviousness to the specific dimensions claimed. These dimensions appear to be that of any conventional projection in the prior art. These dimensions do not appear to be critical or create any unexpected results.

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They appear to be comprehended by the prior art. Any specific dimension would be well within the realm of the artisan of ordinary skill to find optimum results through routine experimentation.

- 10. Regarding claims 16-18, Homma teaches each of these limitations. Homma teaches the cationic polymer compound cationic cellulose in column 4, line 53. Homma teaches the nonionic surface active agent polyoxyethylene alkyl ethers in column 2, lines 56-57. Homma teaches ethanol in column 5, line 14
- 11. Regarding claim 20, the density of the projections also appear to be well within the realm of the artisan of ordinary skill. There appears to be no criticality or unexpected results to these densities. They appear to be comprehended by the prior art.

#### Response to Arguments

- 12. Applicant's arguments filed 10 March 2004 have been fully considered but they are not persuasive.
- 13. Applicant argues that the combination of the specific detergent and the conical projections prevents hairs from tangling however Homma teaches the claimed detergent including the function of improved combing or brushing. The detergent claimed, including property of preventing tangling of the hair, is not new as exemplified by Homma. This would be true for any sized projections.
- 14. Applicant argues none of the references disclose or suggest a combination of flat side surface and an imaginary concave plane formed by the apices of the projections extending form the flat side surface. The examiner respectfully disagrees. Van Sant clearly teaches this as shown in figure 2. Figure 2 clearly shows a flat surface on top of the cover and the concave

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imaginary surface formed by the apices of the projections as further supported on page 2, lines

25-29.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE 16.

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

ddd

19 May, 2004

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Primary Examiner Art Unit 3764

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